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(FILE 'HOME' ENTERED AT 08:07:15 ON 29 JUL 2004)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DISSABS, DDFB, DDFU, DGENE, DRUGB, DRUGMONOG2, ...' ENTERED AT 08:07:26 ON 29 JUL 2004

SEA SYNTHASE

32530 FILE ADISCTI
480 FILE ADISINSIGHT
105 FILE ADISNEWS
7633 FILE AGRICOLA
332 FILE ANABSTR
825 FILE AQUASCI
1167 FILE BIOBUSINESS
183 FILE BIOCOMMERCE
87680 FILE BIOSIS
5072 FILE BIOTECHABS
5072 FILE BIOTECHDS
29456 FILE BIOTECHNO
13456 FILE CABA
12762 FILE CANCERLIT
81284 FILE CAPLUS
815 FILE CEABA-VTB
92 FILE CEN
245 FILE CIN
1924 FILE CONFSCI
72 FILE CROPB
1440 FILE CROPU
3445 FILE DISSABS
1075 FILE DDFB
14720 FILE DDFU
1075 FILE DRUGB
196 FILE IMSDRUGNEWS
15932 FILE DRUGU
115 FILE IMSRESEARCH
854 FILE EMBAL
77898 FILE EMBASE
36990 FILE ESBIODASE
2422 FILE FEDRIP
663 FILE FROSTI
1416 FILE FSTA
69559 FILE GENBANK
38 FILE HEALSAFE
3389 FILE IFIPAT
8036 FILE JICST-EPLUS
72 FILE KOSMET
21414 FILE LIFESCI
15 FILE MEDICNF
79866 FILE MEDLINE
177 FILE NIOSHTIC
214 FILE NTIS
3 FILE NUTRACEUT
168 FILE OCEAN
43761 FILE PASCAL
6 FILE PCTGEN
814 FILE PHAR
45 FILE PHARMAML
2 FILE PHIC
257 FILE PHIN

780 FILE PROMT
 3329 FILE PROUSDDR
 2 FILE RDISCLOSURE
 91286 FILE SCISEARCH
 51 FILE SYNTHLINE
 43225 FILE TOXCENTER
 15481 FILE USPATFULL
 1023 FILE USPAT2
 15 FILE VETB
 109 FILE VETU
 4084 FILE WPIDS
 41 FILE WPIFV
 4084 FILE WPINDEX

L1

QUE SYNTHASE

FILE 'SCISEARCH, BIOSIS, CAPLUS, MEDLINE, EMBASE, PASCAL, TOXCENTER,
 ESBIODBASE, ADISCTI, BIOTECHNO, LIFESCI, DRUGU, USPATFULL, CABA,
 CANCERLIT' ENTERED AT 08:08:40 ON 29 JUL 2004

L2 1922 S L1 AND (GRANULE BOUND)
 L3 86 S L2 AND REINHARDTII
 L4 39 DUP REM L3 (47 DUPLICATES REMOVED)
 L5 4303 S L1 AND (STARCH SYNTHASE)
 L6 377 S L5 AND (FUSION PROTEIN OR HYBRID PROTEIN OR CHIMER?)
 L7 17 S L6 AND REINHARDTII
 L8 17 DUP REM L7 (0 DUPLICATES REMOVED)

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L8 ANSWER 1 OF 17 USPATFULL on STN

ACCESSION NUMBER: 2004:140285 USPATFULL
TITLE: Glucan chain length domains
INVENTOR(S): Commuri, Padma, Ankeny, IA, UNITED STATES
Keeling, Peter L., Ames, IA, UNITED STATES
Ramirez, Nona, Ames, IA, UNITED STATES
McKean, Angela, Ames, IA, UNITED STATES
Gao, Zhong, Ames, IA, UNITED STATES
Guan, Hanping, Ames, IA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004107461	A1	20040603
APPLICATION INFO.:	US 2002-109048	A1	20020329 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-279720P	20010330 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	NIXON & VENDERHYE P.C., 8th Floor, 1100 North Glebe Road, Arlington, VA, 22201-4714	
NUMBER OF CLAIMS:	53	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	22 Drawing Page(s)	
LINE COUNT:	12564	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to a method for changing the glucan chain lengths using **fusion protein** domains of various **starch synthase** enzymes in any starch or starch granule producing organism. The invention relates to identification of a Glucan ASSociation domain (herein after referred to as "GLASS" domain) of granule bound **starch synthase** (GBSS) used in combination with any other GLYcosyl TRansferase domain otherwise referred to as pfam00534-catalytic domain (herein after referred to as "GLYTR" domain) of one or more of any of the other **starch synthase** enzymes. The invention relates to identifying and using the new and surprising discovery that **starch synthases** are composed of at least two distinct functional domains herein after labeled as "GLASS" and "GLYTR". More specifically, this invention relates to the genetic constructs that encode the fusions of the above domains and to the plants transformed with said constructs. The method of invention can thus be used in particular to provide a modified profile of starch granule associated **starch synthase** (SS) enzymes and by which modified glucan chain lengths of amylopectin and hence, modified starches and or complexes will be generated. This can be done in any organism and more particularly any plant that stores or synthesizes starch in any of its parts, such as potato, sweet potato, cassaya, pea, taro, banana, yam and cereal crops such as rice, maize, wheat, barley, oats, and sorghum.

L8 ANSWER 2 OF 17 USPATFULL on STN

ACCESSION NUMBER: 2004:96519 USPATFULL
TITLE: Expression of fructose 1,6 bisphosphate aldolase in transgenic plants
INVENTOR(S): Barry, Gerard F., St. Louis, MO, UNITED STATES
Cheikh, Nordine, Manchester, MO, UNITED STATES
Kishore, Ganesh M., Creve Coeur, MO, UNITED STATES
PATENT ASSIGNEE(S): Monsanto Technology LLC (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004073976	A1	20040415

APPLICATION INFO.: US 2003-705430 A1 20031111 (10)
RELATED APPLN. INFO.: Continuation of Ser. No. US 2002-164204, filed on 6 Jun 2002, GRANTED, Pat. No. US 6663906 Division of Ser. No. US 1998-98219, filed on 16 Jun 1998, GRANTED, Pat. No. US 6441277

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-49955P	19970617 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	HOWREY SIMON ARNOLD & WHITE LLP, 750 BERING DRIVE, HOUSTON, TX, 77057	
NUMBER OF CLAIMS:	23	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	11 Drawing Page(s)	
LINE COUNT:	2340	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Fructose-1,6-bisphosphate aldolase (FDA) is an enzyme reversibly catalyzing the reaction converting triosephosphate into fructose-1,6-bisphosphate. In the leaf, this enzyme is located in the chloroplast (starch synthesis) and the cytosol (sucrose biosynthesis). Transgenic plants were generated that express the E. coli fda gene in the chloroplast to improve plant yield by increasing leaf starch biosynthetic ability in particular and sucrose production in general. Leaves from plants expressing the fda transgene showed a significantly higher starch accumulation, as compared to control plants expressing the null vector, particularly early in the photoperiod, but had lower leaf sucrose. Transgenic plants also had a significantly higher root mass. Furthermore, transgenic potatoes expressing fda exhibited improved uniformity of solids.

L8 ANSWER 3 OF 17 USPATFULL on STN

ACCESSION NUMBER: 2004:12955 USPATFULL
TITLE: Novel human polynucleotides and polypeptides encoded thereby
INVENTOR(S): Leach, Martin D., Madison, CT, UNITED STATES
Shimkets, Richard A., Guilford, CT, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004009474	A1	20040115
APPLICATION INFO.:	US 2001-864408	A1	20010524 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-206690P	20000524 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Ivor R. Elrifi, Esq., MIntz, Levin, Cohn, Ferris,, Glovsky and Popeo, P.C., One Financial Center, Boston, MA, 02111	
NUMBER OF CLAIMS:	32	
EXEMPLARY CLAIM:	1	
LINE COUNT:	21366	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides ORFX, a novel isolated polypeptide, as well as a polynucleotide encoding ORFX and antibodies that immunospecifically bind to ORFX or any derivative, variant, mutant, or fragment of the ORFX polypeptide, polynucleotide or antibody. The invention additionally provides methods in which the ORFX polypeptide, polynucleotide and antibody are used in detection and treatment of a broad range of pathological states, as well as to others uses.

L8 ANSWER 4 OF 17 USPATFULL on STN

ACCESSION NUMBER: 2003:331453 USPATFULL
TITLE: Gene sequences and uses thereof in plants
INVENTOR(S): Edgerton, Michael D., St. Louis, MO, UNITED STATES
Chomet, Paul S., Mystic, CT, UNITED STATES
Laccetti, Lucille B., Groton, CT, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003233670	A1	20031218
APPLICATION INFO.:	US 2002-310154	A1	20021204 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-337358P	20011204 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	MONSANTO COMPANY, 800 N. LINDBERGH BLVD., ATTENTION: G.P. WUELLNER, IP PARALEGAL, (E2NA), ST. LOUIS, MO, 63167	
NUMBER OF CLAIMS:	28	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Page(s)	
LINE COUNT:	14098	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides polynucleotides and proteins encoded by the polypeptides. The disclosed polynucleotides and polypeptides find use in production of transgenic plants to produce plants having improved properties. The invention further provides methods of producing fertile transgenic plants, preferably maize, with desirable phenotypes and progeny of any generation derived from the fertile transgenic plants.

L8 ANSWER 5 OF 17 USPATFULL on STN

ACCESSION NUMBER: 2003:320423 USPATFULL
TITLE: Plant like starches and the method of making them in hosts
INVENTOR(S): Guan, Hanping, Ames, IA, UNITED STATES
Keeling, Peter L., Ames, IA, UNITED STATES
PATENT ASSIGNEE(S): Exseed Genetics LLC (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003226176	A1	20031204
APPLICATION INFO.:	US 2003-336753	A1	20030106 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1999-402254, filed on 1 Oct 1999, PENDING A 371 of International Ser. No. WO 1998-US6660, filed on 3 Apr 1998, PENDING		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	NIXON & VANDERHYE, PC, 1100 N GLEBE ROAD, 8TH FLOOR, ARLINGTON, VA, 22201-4714		
NUMBER OF CLAIMS:	38		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	90 Drawing Page(s)		
LINE COUNT:	4117		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to hosts containing constructs with genes from the starch pathway. More typically the present invention relates to bacterial hosts that form plant like starches. Additionally the present invention relates to plant hosts that have genes from the starch pathway. The invention further relates to the starches produced by said hosts.

L8 ANSWER 6 OF 17 USPATFULL on STN

ACCESSION NUMBER: 2003:215378 USPATFULL
TITLE: Starch
INVENTOR(S): Klucinec, Jeffrey D., Ames, IA, UNITED STATES
Keeling, Peter L., Ames, IA, UNITED STATES
Commuri, Padma, Ames, IA, UNITED STATES
Chang, Ming-Tang, Ames, IA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003150023	A1	20030807
APPLICATION INFO.:	US 2002-272291	A1	20021017 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-329525P	20011017 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Patricia A. McDaniels, Esq., Intellectual Property, BASF Corporation, 26 Davis Drive, Research Triangle Park, NC, 27709-3528	
NUMBER OF CLAIMS:	30	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	13 Drawing Page(s)	
LINE COUNT:	5054	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to a method of producing a starch with unique functionality in plants through mutagenesis, and/or using biotechnology, and/or breeding practices. Further the invention relates to the starch from maize plants and/or other plants which produce starch storing organs which contain low amylose starch which has an amylose content between 1.5% and 15% and preferrably between 1.5% and 10% and most preferrably 1.5 and 8%. The invention includes starch extracted from such grain due to at least one mutation induced by ethyl methanesulfonate. Additionally, the invention uses a biotechnology approach involving controlling the activity of the granule bound **starch synthase** enzyme in starch storing organ. The invention includes the use of the starch for its cooking, paste, and gel properties.

L8 ANSWER 7 OF 17 USPATFULL on STN

ACCESSION NUMBER: 2003:182805 USPATFULL
TITLE: Expression of fructose 1,6 bisphosphate aldolase in transgenic plants
INVENTOR(S): Barry, Gerard F., St. Louis, MO, UNITED STATES
Cheikh, Nordine, Manchester, MO, UNITED STATES
Kishore, Ganesh M., Creve Coeur, MO, UNITED STATES
PATENT ASSIGNEE(S): Monsanto Technology LLC (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003126641	A1	20030703
	US 6663906	B2	20031216
APPLICATION INFO.:	US 2002-164204	A1	20020606 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 1998-98219, filed on 16 Jun 1998, GRANTED, Pat. No. US 6441277		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-49955P	19970617 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Patricia A. Kammerer, Esq., HOWREY SIMON ARNOLD & WHITE, LLP, 750 Bering Drive, Houston, TX, 77057-2198	
NUMBER OF CLAIMS:	23	

EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 11 Drawing Page(s)
LINE COUNT: 2340
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Fructose-1,6-bisphosphate aldolase (FDA) is an enzyme reversibly catalyzing the reaction converting triosephosphate into fructose-1,6-bisphosphate. In the leaf, this enzyme is located in the chloroplast (starch synthesis) and the cytosol (sucrose biosynthesis). Transgenic plants were generated that express the E. coli fda gene in the chloroplast to improve plant yield by increasing leaf starch biosynthetic ability in particular and sucrose production in general. Leaves from plants expressing the fda transgene showed a significantly higher starch accumulation, as compared to control plants expressing the null vector, particularly early in the photoperiod, but had lower leaf sucrose. Transgenic plants also had a significantly higher root mass. Furthermore, transgenic potatoes expressing fda exhibited improved uniformity of solids.

L8 ANSWER 8 OF 17 USPATFULL on STN

ACCESSION NUMBER: 2003:184175 USPATFULL
TITLE: Nucleic acid molecules from plants encoding enzymes which participate in starch synthesis
INVENTOR(S): Frohberg, Claus, Berlin, GERMANY, FEDERAL REPUBLIC OF
PATENT ASSIGNEE(S): Aventis CropScience GmbH, Frankfurt, GERMANY, FEDERAL REPUBLIC OF (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6590141	B1	20030708
APPLICATION INFO.:	US 2000-638524		20000811 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	DE 1999-19937348	19990811
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Fox, David T.	
LEGAL REPRESENTATIVE:	Frommer Lawrence & Haug LLP	
NUMBER OF CLAIMS:	19	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	1 Drawing Figure(s); 1 Drawing Page(s)	
LINE COUNT:	2240	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Nucleic acid molecules are described which encode enzymes which participate in starch synthesis in plants. These enzymes are a new isoform of **starch synthase**. There are furthermore described vectors for generating transgenic plant cells and plants which synthesize a modified starch. There are furthermore described methods for the generation of these transgenic plant cells and plants, and methods for producing modified starches.

L8 ANSWER 9 OF 17 USPATFULL on STN

ACCESSION NUMBER: 2002:252911 USPATFULL
TITLE: Nucleic acid molecules encoding enzymes from wheat which are involved in starch synthesis
INVENTOR(S): Block, Martina, Bonn, GERMANY, FEDERAL REPUBLIC OF
Lorz, Horst, Hamburg, GERMANY, FEDERAL REPUBLIC OF
Lutticke, Stephanie, Hamburg, GERMANY, FEDERAL REPUBLIC OF
Walter, Lennart, Gluckstadt, GERMANY, FEDERAL REPUBLIC OF
Frohberg, Claus, Berlin, GERMANY, FEDERAL REPUBLIC OF
Kossmann, Jens, Golm, GERMANY, FEDERAL REPUBLIC OF
PATENT ASSIGNEE(S): Hoechst Schering AgrEvo, GmbH (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002138876	A1	20020926
	US 6734339	B2	20040511
APPLICATION INFO.:	US 2001-952677	A1	20010914 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1998-196390, filed on 19 Nov 1998, GRANTED, Pat. No. US 6307125 Continuation of Ser. No. WO 1997-EP2793, filed on 28 May 1997, UNKNOWN		

	NUMBER	DATE
PRIORITY INFORMATION:	DE 1996-DE19621588	19960529
	DE 1996-DE19636917	19960911
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FISH & NEAVE, 1251 AVENUE OF THE AMERICAS, 50TH FLOOR, NEW YORK, NY, 10020-1105	
NUMBER OF CLAIMS:	29	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1865	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to nucleic acid molecules encoding enzymes which are involved in the starch synthesis in plants. These enzymes are **starch synthases** from wheat. The invention further relates to vectors and host cells containing said nucleic acid molecules, in particular transformed plant cells and plants regenerated from these cells, which exhibit an increased or a reduced activity of the described **starch synthases**.

L8 ANSWER 10 OF 17 USPATFULL on STN

ACCESSION NUMBER: 2002:252910 USPATFULL
 TITLE: Expression of fructose 1,6 bisphosphate aldolase in transgenic plants
 INVENTOR(S): Barry, Gerard F., St. Louis, MI, UNITED STATES
 Cheikh, Nordine, Manchester, MI, UNITED STATES
 Kishore, Ganesh M., Creve Coeur, MI, UNITED STATES
 PATENT ASSIGNEE(S): Monsanto Technology, LLC. (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002138875	A1	20020926
	US 6716474	B2	20040406
APPLICATION INFO.:	US 2001-923109	A1	20010806 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1998-98219, filed on 16 Jun 1998, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-49955P	19970617 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Patricia A. Kammerer, Esq., HOWREY SIMON ARNOLD & WHITE, LLP, 750 Bering Drive, Houston, TX, 77057-2198	
NUMBER OF CLAIMS:	23	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	11 Drawing Page(s)	
LINE COUNT:	1860	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Fructose-1,6-bisphosphate aldolase (FDA) is an enzyme reversibly catalyzing the reaction converting triosephosphate into fructose-1,6-bisphosphate. In the leaf, this enzyme is located in the chloroplast (starch synthesis) and the cytosol (sucrose biosynthesis). Transgenic plants were generated that express the E. coli fda gene in

the chloroplast to improve plant yield by increasing leaf starch biosynthetic ability in particular and sucrose production in general. Leaves from plants expressing the fda transgene showed a significantly higher starch accumulation, as compared to control plants expressing the null vector, particularly early in the photoperiod, but had lower leaf sucrose. Transgenic plants also had a significantly higher root mass. Furthermore, transgenic potatoes expressing fda exhibited improved uniformity of solids.

L8 ANSWER 11 OF 17 USPATFULL on STN

ACCESSION NUMBER: 2002:304117 USPATFULL
 TITLE: Modified ADP-glucose pyrophosphorylase for improvement and optimization of plant phenotypes
 INVENTOR(S): Stemmer, Willem P. C., Los Gatos, CA, United States
 Subramanian, Venkiteswaran, San Diego, CA, United States
 PATENT ASSIGNEE(S): Maxygen, Inc., Redwood City, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6483011	B1	20021119
APPLICATION INFO.:	US 2000-721540		20001122 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1999-437725, filed on 9 Nov 1999, now abandoned		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-107782P	19981110 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Horlick, Kenneth R.	
ASSISTANT EXAMINER:	Strzelecka, Teresa	
LEGAL REPRESENTATIVE:	Townsend and Townsend and Crew LLP	
NUMBER OF CLAIMS:	17	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Figure(s); 2 Drawing Page(s)	
LINE COUNT:	2975	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides methods and compositions relating to sequence-shuffled variants of ADP-glucose pyrophosphorylase.

L8 ANSWER 12 OF 17 USPATFULL on STN

ACCESSION NUMBER: 2002:291078 USPATFULL
 TITLE: Polynucleotides and polypeptides derived from corn ear
 INVENTOR(S): Lalgudi, Raghunath V., Clayton, MO, United States
 Ito, Laura Y., Pleasanton, CA, United States
 Sherman, Bradley K., Oakland, CA, United States
 PATENT ASSIGNEE(S): Incyte Genomics, Inc., Palo Alto, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6476212	B1	20021105
APPLICATION INFO.:	US 1999-313294		19990514 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-86722P	19980526 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Brusca, John S.	
ASSISTANT EXAMINER:	Moran, Marjorie A.	
LEGAL REPRESENTATIVE:	Incyte Genomics, Inc., Murry, Lynn E.	

NUMBER OF CLAIMS: 5
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 0 Drawing Figure(s); 0 Drawing Page(s)
LINE COUNT: 23084

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides purified, corn ear-derived polynucleotides (cdps) which encode corn ear-derived polypeptides (CDPs). The invention also provides for the use of cdps or their complements, oligonucleotides, or fragments in methods for determining altered gene expression, to recover regulatory elements, and to follow inheritance of desirable characteristics through hybrid breeding programs. The invention further provides for vectors and host cells containing cdps for the expression of CDPs. The invention additionally provides for (i) use of isolated and purified CDPs to induce antibodies and to screen libraries of compounds and (ii) use of anti-CDP antibodies in diagnostic assays.

L8 ANSWER 13 OF 17 USPATFULL on STN

ACCESSION NUMBER: 2002:217489 USPATFULL
TITLE: Expression of fructose 1,6 bisphosphate aldolase in transgenic plants
INVENTOR(S): Barry, Gerard F., St. Louis, MO, United States
Cheikh, Nordine, Manchester, MO, United States
Kishore, Ganesh M., Creve Coeur, MO, United States
PATENT ASSIGNEE(S): Monsanto Technology LLC, St. Louis, MO, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6441277	B1	20020827
APPLICATION INFO.:	US 1998-98219		19980616 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-49995P	19970617 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Nelson, Amy J.	
ASSISTANT EXAMINER:	Zaghmout, O. M. F.	
LEGAL REPRESENTATIVE:	McBride, Thomas P., Howrey, Simon, Arnold & White, LLP	
NUMBER OF CLAIMS:	12	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	9 Drawing Figure(s); 11 Drawing Page(s)	
LINE COUNT:	2259	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Fructose-1,6-bisphosphate aldolase (FDA) is an enzyme reversibly catalyzing the reaction converting triosephosphate into fructose-1,6-bisphosphate. In the leaf, this enzyme is located in the chloroplast (starch synthesis) and the cytosol (sucrose biosynthesis). Transgenic plants were generated that express the E. coli fda gene in the chloroplast to improve plant yield by increasing leaf starch biosynthetic ability in particular and sucrose production in general. Leaves from plants expressing the fda transgene showed a significantly higher starch accumulation, as compared to control plants expressing the null vector, particularly early in the photoperiod, but had lower leaf sucrose. Transgenic plants also had a significantly higher root mass. Furthermore, transgenic potatoes expressing fda exhibited improved uniformity of solids.

L8 ANSWER 14 OF 17 USPATFULL on STN

ACCESSION NUMBER: 2001:229384 USPATFULL
TITLE: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN TASSEL
INVENTOR(S): LALGUDI, RAGHUNATH V., CLAYTON, MO, United States

ITO, LAURA Y., PLEASANTON, CA, United States
SHERMAN, BRADLEY K., OAKLAND, CA, United States

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2001051335	A1	20011213
APPLICATION INFO.:	US 1999-294093	A1	19990416 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-82567P	19980421 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Christopher Turner, LEGAL DEPARTMENT, INCYTE GENOMICS, INC., 3160 PORTER DRIVE, PALO ALTO, CA, 94304	
NUMBER OF CLAIMS:	17	
EXEMPLARY CLAIM:	1	
LINE COUNT:	3549	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides purified, corn tassel-derived polynucleotides (cdps) which encode corn tassel-derived polypeptides (CDPs). The invention also provides for the use of cdps or their complements, oligonucleotides, or fragments in methods for determining altered gene expression, to recover regulatory elements, and to follow inheritance of desirable characteristics through hybrid breeding programs. The invention further provides for vectors and host cells containing cdps for the expression of CDPs. The invention additionally provides for (i) use of isolated and purified CDPs to induce antibodies and to screen libraries of compounds and (ii) use of anti-CDP antibodies in diagnostic assays.

L8 ANSWER 15 OF 17 USPATFULL on STN

ACCESSION NUMBER: 2001:185552 USPATFULL
TITLE: Nucleic acid molecules encoding enzymes from wheat which are involved in starch synthesis
INVENTOR(S): Block, Martina, Bonn, Germany, Federal Republic of
Lorz, Horst, Hamburg, Germany, Federal Republic of
Lutticke, Stephanie, Hamburg, Germany, Federal Republic of
Walter, Lennart, Gluckstadt, Germany, Federal Republic of
Frohberg, Claus, Berlin, Germany, Federal Republic of
Kossmann, Jens, Golm, Germany, Federal Republic of
PATENT ASSIGNEE(S): Hoechst Schering AgrEvo, GmbH, Berlin, Germany, Federal Republic of (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6307125	B1	20011023
APPLICATION INFO.:	US 1998-196390		19981119 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. WO 1997-EP2793, filed on 28 May 1997		

	NUMBER	DATE
PRIORITY INFORMATION:	DE 1996-19621588	19960529
	DE 1996-19636917	19960911
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Fox, David T.	
LEGAL REPRESENTATIVE:	Fish & Neave, Haley, Jr., James F., Shin, Elinor K.	
NUMBER OF CLAIMS:	29	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1384	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to nucleic acid molecules encoding enzymes which are involved in the starch synthesis in plants. These enzymes are **starch synthases** from wheat. The invention further relates to vectors and host cells containing said nucleic acid molecules, in particular transformed plant cells and plants regenerated from these cells, which exhibit an increased or a reduced activity of the described **starch synthases**.

L8 ANSWER 16 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:842295 CAPLUS

DOCUMENT NUMBER: 134:14733

TITLE: **Fusion proteins** with Chlamydomonas **starch synthase** and food and pharmaceuticals containing starch-**fusion protein** complexes

INVENTOR(S): D'Hulst, Christophe; Ball, Steven

PATENT ASSIGNEE(S): Centre National de la Recherche Scientifique, Fr.

SOURCE: PCT Int. Appl., 90 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000071734	A1	20001130	WO 2000-FR1384	20000519
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
FR 2793806	A1	20001124	FR 1999-6494	19990521
FR 2793806	B1	20030425		
EP 1179078	A1	20020213	EP 2000-929649	20000519
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
JP 2003500060	T2	20030107	JP 2000-620111	20000519
PRIORITY APPLN. INFO.:			FR 1999-6494	A 19990521
			WO 2000-FR1384	W 20000519

AB The invention concerns starch granules containing a **hybrid protein** between a **starch synthase** and a protein of interest, the nucleotide sequences used for obtaining same, methods for preparing them and their uses, particularly in pharmaceutical compns. Thus, the cDNA for the STA2 gene **starch synthase** of *C. reinhardtii* was cloned and sequenced. A C-terminal-truncated **starch synthase** of 58 kilodaltons (wild-type enzyme: 76 kilodaltons) encoded by the sta2-1 allele was found to have a six-fold increased Km for ADP-glucose and to bind to starch grains with unaltered affinity.

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 17 OF 17 USPATFULL on STN

ACCESSION NUMBER: 97:59085 USPATFULL

TITLE: Modulation of sugar content in plants

INVENTOR(S): Secor, Gary A., Fargo, ND, United States
Borovkov, Alexander Y., Fargo, ND, United States
McClean, Phillip E., Fargo, ND, United States

PATENT ASSIGNEE(S): Sowokinos, Joseph R., Grand Forks, ND, United States
J.R. Simplot Company, Boise, ID, United States (U.S. corporation)
North Dakota State University of Agriculture and Applied Sciences, Bismarck, ND, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5646023		19970708
APPLICATION INFO.:	US 1995-545228		19951019 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1993-48027, filed on 15 Apr 1993, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Moody, Patricia R.		
LEGAL REPRESENTATIVE:	Townsend and Townsend and Crew LLP		
NUMBER OF CLAIMS:	14		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	4 Drawing Figure(s); 3 Drawing Page(s)		
LINE COUNT:	1203		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides novel transgenic plants with altered sugar levels and methods for producing them. The methods comprise introducing into the plant an expression cassette comprising a promoter sequence operably linked to a polynucleotide sequence substantially identical to a sequence from a gene encoding a protein associated with sucrose biosynthesis.

Refine Search

Search Results -

Terms	Documents
L1 same reinhardtii	5

Database:

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 US Patents Full-Text Database
 US OCR Full-Text Database
 EPO Abstracts Database
 JPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

Search:

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DATE: Thursday, July 29, 2004 [Printable Copy](#) [Create Case](#)

<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>			
<u>L2</u>	L1 same reinhardtii	5	<u>L2</u>
<u>L1</u>	starch synthase	489	<u>L1</u>

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Search Results - Record(s) 1 through 5 of 5 returned.

☐ 1. Document ID: US 20040107461 A1**Using default format because multiple data bases are involved.**

L2: Entry 1 of 5

File: PGPB

Jun 3, 2004

PGPUB-DOCUMENT-NUMBER: 20040107461

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040107461 A1

TITLE: Glucan chain length domains

PUBLICATION-DATE: June 3, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Commuri, Padma	Ankeny	IA	US	
Keeling, Peter L.	Ames	IA	US	
Ramirez, Nona	Ames	IA	US	
McKean, Angela	Ames	IA	US	
Gao, Zhong	Ames	IA	US	
Guan, Hanping	Ames	IA	US	

US-CL-CURRENT: [800/284](#); [435/101](#), [435/193](#), [435/320.1](#), [435/419](#), [435/69.1](#), [536/102](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	EMC	Draw Desc	Image
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☐ 2. Document ID: US 20030226176 A1

L2: Entry 2 of 5

File: PGPB

Dec 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030226176

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030226176 A1

TITLE: Plant like starches and the method of making them in hosts

PUBLICATION-DATE: December 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Guan, Hanping	Ames	IA	US	
Keeling, Peter L.	Ames	IA	US	

US-CL-CURRENT: [800/284](#); [435/101](#), [435/200](#), [435/320.1](#), [435/419](#), [435/69.1](#), [536/102](#), [536/123](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RNOC	Draw Desc	Image
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☐ 3. Document ID: US 20030150023 A1

L2: Entry 3 of 5

File: PGPB

Aug 7, 2003

PGPUB-DOCUMENT-NUMBER: 20030150023
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030150023 A1

TITLE: Starch

PUBLICATION-DATE: August 7, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Klucinec, Jeffrey D.	Ames	IA	US	
Keeling, Peter L.	Ames	IA	US	
Commuri, Padma	Ames	IA	US	
Chang, Ming-Tang	Ames	IA	US	

US-CL-CURRENT: 800/284; 426/661, 435/101, 536/102

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RNOC	Draw Desc	Image
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☐ 4. Document ID: US 20010051335 A1

L2: Entry 4 of 5

File: PGPB

Dec 13, 2001

PGPUB-DOCUMENT-NUMBER: 20010051335
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010051335 A1

TITLE: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN TASSEL

PUBLICATION-DATE: December 13, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
LALGUDI, RAGHUNATH V.	CLAYTON	MO	US	
ITO, LAURA Y.	PLEASANTON	CA	US	
SHERMAN, BRADLEY K.	OAKLAND	CA	US	

US-CL-CURRENT: 435/6; 435/69.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RNOC	Draw Desc	Image
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☐ 5. Document ID: US 6476212 B1

L2: Entry 5 of 5

File: USPT

Nov 5, 2002

US-PAT-NO: 6476212
DOCUMENT-IDENTIFIER: US 6476212 B1

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** See image for Certificate of Correction **

TITLE: Polynucleotides and polypeptides derived from corn ear

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGs	Draw Desc	Image
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L2: Entry 1 of 5

File: PGPB

Jun 3, 2004

PGPUB-DOCUMENT-NUMBER: 20040107461

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040107461 A1

TITLE: Glucan chain length domains

PUBLICATION-DATE: June 3, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Commuri, Padma	Ankeny	IA	US	
Keeling, Peter L.	Ames	IA	US	
Ramirez, Nona	Ames	IA	US	
McKean, Angela	Ames	IA	US	
Gao, Zhong	Ames	IA	US	
Guan, Hanping	Ames	IA	US	

US-CL-CURRENT: [800/284](#); [435/101](#), [435/193](#), [435/320.1](#), [435/419](#), [435/69.1](#), [536/102](#), [536/23.2](#)

Full

Title

Citation

Front

Review

Classification

Date

Reference

Sequences

Attachments

Claims

KIMC

Draw Desc

Image

☐ 2. Document ID: US 20030226176 A1

L2: Entry 2 of 5

File: PGPB

Dec 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030226176

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030226176 A1

TITLE: Plant like starches and the method of making them in hosts

PUBLICATION-DATE: December 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Guan, Hanping	Ames	IA	US	
Keeling, Peter L.	Ames	IA	US	

US-CL-CURRENT: [800/284](#); [435/101](#), [435/200](#), [435/320.1](#), [435/419](#), [435/69.1](#), [536/102](#), [536/123](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMK	Draw Desc	Image
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☐ 3. Document ID: US 20030150023 A1

L2: Entry 3 of 5

File: PGPB

Aug 7, 2003

PGPUB-DOCUMENT-NUMBER: 20030150023
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030150023 A1

TITLE: Starch

PUBLICATION-DATE: August 7, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Klucinec, Jeffrey D.	Ames	IA	US	
Keeling, Peter L.	Ames	IA	US	
Commuri, Padma	Ames	IA	US	
Chang, Ming-Tang	Ames	IA	US	

US-CL-CURRENT: 800/284; 426/661, 435/101, 536/102

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMK	Draw Desc	Image
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☐ 4. Document ID: US 20010051335 A1

L2: Entry 4 of 5

File: PGPB

Dec 13, 2001

PGPUB-DOCUMENT-NUMBER: 20010051335
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010051335 A1

TITLE: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN TASSEL

PUBLICATION-DATE: December 13, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
LALGUDI, RAGHUNATH V.	CLAYTON	MO	US	
ITO, LAURA Y.	PLEASANTON	CA	US	
SHERMAN, BRADLEY K.	OAKLAND	CA	US	

US-CL-CURRENT: 435/6; 435/69.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMK	Draw Desc	Image
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☐ 5. Document ID: US 6476212 B1

L2: Entry 5 of 5

File: USPT

Nov 5, 2002

US-PAT-NO: 6476212
DOCUMENT-IDENTIFIER: US 6476212 B1

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**** See image for Certificate of Correction ****

TITLE: Polynucleotides and polypeptides derived from corn ear

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw Desc	Image
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